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TX-SV515SPRO Audio Video Control Tuner Amplifier Instruction Manual

« Congratutations on your purchase of the ONKYO TX-SV515PRO Tuner-Ampiitier. @ Please read this manual thoroughly belore making connections and turning power on. @ Following the instructions in this manual will enable you to obtain optimum performance and listening enjoy: ment from your new TX-SV515PRO. @ Please retain this manual for future reference. Important safeguards Precautions... Before using this unit. Features. Explanation .. System connections... Control positions and names..... Operations. Use of Surround mode... Listening to devices connected to the TX-SV515PRO in another room. Troubleshooting guide Specifications .... CONTENTS : CAUTION: “TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NG USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL” RISK OF ELECTRIC SHOCK DO NOT OPEN @ The lightning flash with axvowhead symbol, within an equilateral iriangle, is intended to aler! the user to the presence of Uninsulaled “dangerous voltage” within the product's enclosure that may be o! sufficient magnitude to constitute a risk of electhic shack to persons © The axctamation point within an equilateral thangle vs intorded to alor the usar to the presence of important operating and maintenance (servicing) Instructions in ihe lterature accompanying the appkance Important safeguards 1, Read Instructions — Al! the safety and operating Instructions snould be read before the appliance is operated 2. Retain instructions ~ The saloty and operating instructions should be retained for future reference: 3, Heed Warnings - Ail warnings on the appliance and in the eoorating instructions should be adhered to. 4. Follow Instructions - Ai) operaiing and use instructions should be followod, 5. Water and Moisture — The appliance should not be used near water for example, roar a bathtub, washbows. kitchen sink. laundry 12b, in a wet basement, or near a swinvraing pool, and the like, 6. Carts and Stands - The appliance should be usert only with a cart or sland thatis recommended ty the manulacturet. 6A. An appliance and cart comb:nation should be moved with care. Quick stops. excessive force, and uneven surfaces may cause the appianice and cart combination to overtur’ PORTABLE CART WARNING 5 Sarasa Zt 7. Wall or Gelling Mounting - The appliance should be mounted to a wall 0° celing only a»

16. Object and Liquid Entry - Care should be taken so that objects do ot fall ang liquids are not spied into the enclosure through openings 17, Damage Requiring Service — Tho apsliance should be serviced by qualified Service personnel when: A The power-supply cord or the plug has been damaged: or B. Objects nave fallen, of liquid has heen spilled into the appliance: or ©. The appliance has bean oxposed to rain; or D_ The appliance does not appear to operate normally or exhibits 2 marked change in pertormance. or E. The appliance has been dropped, or the enclosure damaged, 18: Servicing — The user should not attempt to service the appliance ‘beyond that described in the operating instructions. A¥ other servicing should be relered to qualified seivice personnel. 19. Outdoor Antenna Grounding - i an outside antenna is connected to the receiver, be sura the antenna systam ss grounded so as ‘0 provide some proteciion agains! voltage surges and bull up static charges Article 810 o! the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, ‘grounding of the loadin wire to an antenna discharge unit, size of groundIng conductors, location of the antenna-discharge unit, connection ta grounding electrodes, and requirements tor the grounding eleciroue, See Figure 73.1 Precautions @ Warranty Card The serial number is written on the rear panel of this unit. Copy the serial number and model number onto your warranty cara and keep itn a sate place, 2, Recording Copyright Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder. 3. AC Fuse The fuse is located inside the chassis and Is not user service able. If power does not come on, contact your ONKYO service center. 4. Care From time to time you should wipe off (te front and rear panels. and the cabinet with a soft cloth For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water or a mild ammonia cleaner, wring @ out dry, and wipe off the dirt. Following this. dry immediately with a clean cloth. Do not use rough mate: fial, thinners, alcohol or other chemical sctvents or cloths since these could damage the finish or remove the panel lettering, 5S. Power BEFORE TURNING ON POWER FOR THE FIRST TIME. READ THE FOLLOWING SECTION CAREFULLY. @ Some modeis are designed for use only with the power supply voltage of the region where they are sold U.S.A. and

Canadian models: AC 120V, 60Hz Worldwide models 120 and 220V switchable, 50/60Hz Before using this unit 1. Supplied Accessories ‘AM loop antenna x | T-shaped FM antenna » 1 FIGURE 73.1: EXAMPLE OF ANTENNA GROUNDING AS PEA NATIONAL ELECTRICAL CODE ANTENNA tEAG IN ———— wine ra GROUND ANTENNA DISCHARGE UNIT (NEC SECTION 810-20), ee EQUIPMENT AS sed GROUND CLAMPS, POWER SERVICE GROUNDING ELECTRODE SYSTEM [NEC ART 260, PART H) NEC — NATIONAL ELECTRICAL CODE S2898A, © Voltage Selector (Rear Panel) Worldwide models are equipped with a voltage selector to con: form with (ocal power supplies. Be sure {o set this switch to match the voltage of the power supply in your area before turning the power switch on Voltage is changed by sliding the groove in the switch with a screwdriver to the right oF left, Confirm that the switch has been moved all the way to the right or left before turning the power switch on, Models without a volt: age Selector can only be used in areas where the power supply is the same as that of the unit. (a] 220VU a Acze0v 2200 120% atACt2oy 120 © Tuning Step Frequency Switch (Rear Panel) Worldwide models aro equipped with @ switch that controls the AM (SkH2/10kHz) band tuning steps. Be sure to set this switch to match the tuning step trequency In your area Ss Ye Remote control transmitter <1 Batteries « 2 eo aa FRI remote control cable « 1

2. Transmitter Battery Insertion @ If the remote control transmitter does not operate even though front panel controls function normally, the batteries should be Teplaced. Use only batteries listed in the following chart Type Voltage Size AA Noa 1.5V RE UM-3 NOTES: 1, Do not leave an expired battery in the caso as it may leak or damage the baitery case, 2. When inserting the batteries, be sure the (+) and (-) ends are properly aligned 3. Do not use nickol-cadmium (rechargeable) batteries. Precautions when using batteries 4, Do not use one specified (manganese) battery and one alka@ The remote control transmitter is powered by two batteries. line Battery at the same time. Before using this unit for the first time, insert the two batteries 5. Replace both batteries at once; do not use one old and one (included) as shown in the diagram. new battery togather © Average battery life Is about one year This period may be shorter depending on the frequency of use and environment (temperature and humidity) in which the remote control transmitteris used Using the remote control transmitter 1. The batteries of the remote control transmitter must be replaced periodically. 2. This unit uses infrared rays, Therefore, commands may not be received properly if the trent panel of this unit is exposed to ‘bright light To prevent this from occurring, place this unit so that itis not directly exposed to bright light. 3. It this unit is placed inside an audio rack behind a glass door, the door should not have colored glass or have any decorations on it, since this couk shorteh the range ot prevent commands trom being recewed. 4. The transmitter operates up lo a distance of about five meters (16 ao feet). The transmitting window must always be pointed at the reception window when a command is sent to the TX-SV51SPRO. ye / Va (16 wer) 5. If this remote control transmitter does not operate properly, con- i a firm that the batteries are not dead. If the probiem persists, con- As tact your ONKYO Service Center. Remote contd transminer Remole sensor approx’ Sm Features rary Plenty of Clean Power © Plenty of continuous power (Front: 8Ow/ch into 8 ohms with No More than 0.08% THD in stereo mode, Center, 55 watts in surround mode; Rear: 20w/ch in surround mode) and discrete amplifier blocks for each channe! of the front, center and rear speakers ensures clean sound from any source. ® Dolby Pro-Logic Surround Sound System Creates a muii-dimensional soundstage with better channel separation.

localization, imaging and dialogue that comes directly trom center stage. The result is sound effects comparable to that of high-class theaters. Multiple Room Remote System and Multi Source Selector It you have an additional pair of speakers in another room, you can operate your TX-SV515PRO from tha other room (with the optional HR-10W remote sensor), as well as control nan-ONKYO video components, such as your TV or VCR from another room (with dptional HE-SOAC emitter and HE-10 emitter head). You cas) also play different sources simultaneously for multiple-room entertainment Direct Access Tuning 40-Station Random Preset Tuning Six-Class Classified Memory Connection Facilities for Three Video Components Selective Tone Contro! Recording Selector I Compatible Remote Control Included

Explanation oo Surround System Many motion pictures produced in the last decade have been released in “Dolby Stereo" sound, with music, dialogue, and panned effects coming from the 3-channel {ront soundstage, and surround effects and ambience emmanating from the sides and rear of the theater. These four channels are encoded, or matrixed, into a two-channel DOLBY STEREO release, and decoded in the theater by a professional DOLBY STEREO MP (Motion Picture) decoder. These surround sound effects are ‘hidden’ in the two-channel stereo movie release, and decoded in the theater by special Dolby equipment. These same two-channel motion picture masters are used tor production of steréo VHS, VHS Hi-Fi, Bela Hi-Fi, and stereo Laser Vision discs that you can buy or rent at your video store, The TX-SV515PRO incorporates the Dolby Pro Logic Surround Circuit, which is designed to emulate the audience experience found in DOLBY STEREO theaters. Like DOLBY SURROUND, DOLBY PRO LOGIC SURROUND is capable of creating a mult-dimensional soundstage, but with the increased channel separation it gives a far greater sense of ‘movement” and sound focalization. Just like in the theater, the addition of the active center channel ensures that ail audience members hear dialogue coming from its onscreen sources regardless of seating position. Since tha TX-SV515PRO is equipped with front amplifiers, center amplifier and rear (surround) amplifiers, Dolby Pro Logic Surround and Hall effects can all be produced, You can enjoy the feeling of a movie theater of concert hall in your own room. To reproduce thase effects, rear (surround) speakers and center speaker are necessary. The placement of these speakers is important, You can experiment with various positions and locations to find the best placemert for optimum sound quality in your room, Examples of Speaker Placernent A B =" \ =a a LEFT RIGHT | fp a) PENG APS \ (ew / (XOX) i —— } \, eee USTENER / J ucer \ \ustener_/ aca WJ —_ = j c: 7 ran i ee eer, Li r ait \ With the rear (surround) speakers facing the wall, the reverberation etfect amplifies the “surround” effect for a more “live” sound. Try | and see! © Dolby Pro Logic Surraund When using a video cassette tape or a video disc that have the DOLBY STEREO or DOLBY SURROUND trade mark, you can achieve the same kind of sound in your room that you experience ina movie theater. In the Dolby Pro Logic Surround mode, three modes are available according to the

type of center speaker used. 1, Normal’ When a small speaker is used on the center channel, signals of 100 Hz or more are oulput from the center speaker, and signals of 100 Hz or less are split between the front Land R channels. 2. Wide band: When the center speaker is approximately the same size as the left and right front speakers, it operates throughout the full frequency range. 3. Phantom; When no center speaker is used, the center channel signal is split between the front L and R speakers, producing the same results as found with a center speaker. © Hall The same kind of sound that you experience in a theater or concert hall and the natural expansion of sound can be achieved with a music source Hall mode would be best suited to jazz and classical Multiple Room Remote System (mR) The ONKYO HR-10(W) Remote Sensor (sold separately) greatly increases system flexibility. Used with your TX-SV515PRO, the HR-10(W) allows you to control speakers even when you are not in the same roorn as the TX-SV515PRO. In addition to basic functions like spaaker on-off and volume and so on, you can aiso control most ONKYO CD Players, Cassette Decks and Digital Audio Tape Decks that use the (Remote Interactive) system; Adding an HE-50(AC) Remote Emitter (also available as an option) allows you to control even the non-ONKYO components in your home entertainment system from a separate room When the HE-50(AC) is being used 'o control more than one device trom a distance but the infrared beams from the HE-50(AC) remote control transmitter alone will not reach these devices. connect an HE-10 (remote miter head) to the HE-50(AC), and set it up to be aimed at the devices lo be controlled The HW-2 cable 6-1/2" (2m) is attached with the HE- 10. Up to three HE-10 units car be used with this equipment. Manutactured under license {rom Dolby Laboratories Licensing Corporation Additionally licensed under one or more of the following patonis: U.S, numbers 3,632,886, 3,746,792 and 3,959,590, Canadian numbers 1,004,603 and 1,037,877. “Dolby” and the double-D symbol (1 are trademarks of Dolby Laboratories Licensing Corporation,

System connections es Do not plug in the cord until all connections have been made, General Always make sure that you connect the left and right channels correotly, Terminals on equipment and cables, when color-coded, usually employ the convention of red for the right channel Antenna Connections Worldwada mods Indoor Tshaped FM Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shalll be connected to the grounding system of the building, as close to the point of cable entry as practical. VIDED DISC PLAYER, or VIDEO CASSETTE | PLAYER (VIDEO-1) SPEAKERS REAR (SURROUND) VIDEOCASSETTE SPEAKER RECORDER (VIDEO2) (VIDEO) CENTER © Montor TV Antenna oF 309 Oh AS loop! cuter Ag 7Botm FM Ouidoo! antenna ertonne antenna 5 'coaxial cabto = Indoor T-anaped (90-2V, §€:2V) antorna 1°] (J) | \ 1 1 i ' ' i i 1 i 1 1 i Connect only one FMantenna at without ground lead TURNTABLE compsct pise PLAYER: FM Antenna Connections Use the Tshaped antenna if you live in an area where signal strength of FM broadcasts is high. Connect the antenna to the FM 300 ohms terminals and place the antenna on a wall or other surface in the position in which reception is best. If signal strength is low in your area, use a multi-element FM outdoor antenna and connect to this unit using a 75 ohm coaxial cabfe because this type o! cable is more resistant to interference than 300 ohm cable. Consult your ONKYO authorized service center about the right type of antenna for your area. CASSETTE CASSETTE APE sre aKERS (HAR) SPEAKERS (REMOTE) DECK) or GRAPHIC em eovaLlzen ercaxenirepance FRONT vat $ orm MNVSPEAKER CENTER, REMOTE. REAR. chne MIVSPEAKER NOTE: Do not use the same antenna for both FM and TV (or VCR) reception since the FM and TV (or VCR) signals can interfere with each other. if you must use a common FM/TV (or VCR) antenna, use a directional linkage type splitter. w

> a noe Derr age wea To receiver To TV (or VOR) Antenna and Speaker (CENTER and REAR) Connections @ Press down the lever (D inset tne wire into the hol, & Foturn tno loves o its onginal position “i § am 4 @ AM Antenna Connections An AM loop antenna is included in the insiailation instructions bag. Take out the connection line and connect it to the AM antenna terminals. This loop antenna can be placed on top of any stable surface or attached to a wall, Try several positions to determine which gives the best reception, Be sure the antenna Is nol near a speaker, power cord, television sot, VCR, or motorized appliances. When using an external AM antenna, do not remove the loop antenna; connect both antennas to the AM antenna terminals. AM loop antenna assembly Gonnect 1o ne AN antenna terminals “fel * . take out the connection tino Bong in the rovers diracton, ® ‘4. With the antenna on top of any stante surtace emacs | - > ces NOTE: AM reception is easily affected by television sets and VCRs. Therefore, AM reception may be poor if this unit is placed too close to. a TV or a VCR. Speaker Connections (SPEAKERS) 1, The speakers that are to be in the same room as the TXSV515PRO should be connected to the “MAIN” speaker terminals. Different set of speakers located in another room (or the samme room) should be connected to the "REMOTE" speaker terminals, Af you want to use the surround effects, connect the center speaker tothe “CENTER” speaker terminals, and the rear (surround) speakers to the “REAR” speaker terminals, 2, When connecting speakers, proper polarity is important. Always connect the (+) terminal (red) on this equipment to the (+) terminal on the speaker and the (-) terminal (black) on this equipment to the (-) terminal on the speaker. 3, Do not connect a single speaker in parallel to the right and left channel outputs. 4. Use speaker cables that have a low impedance and that are as short as possible. @ Altach speaker cables to the rear panel speaker terminals with care. being sure that connections are made firmly and that there is No possibility of a short circult ocourring, Compact Disc Player or Other Component Connections (cD) Connect the output of the CD player or an additional audio component lo the CD jacks. An ONKYO CD player with remote control that has the RI mark can be operated by the TX-SV515PRO. (Please refer to “Connections lor Remote Control.) For more details, refer to your CD player instruction manual. Turntable Connections

(PHONO) Connect the output of the turntable to the PHONO jacks. Be sure to connect the ground (earth) lead wire from the turntable to the ground terminal (GND). Lack of proper ground connection will cause hum. Turntables not provided with GND wires do not need to be connected. 1. Place the turntable on a firm shelf or deck froe from vibrations (especially those generated by the speaker system). If the turntable is permitted to pick up Such unwanted vibrations, not only with the performance of the unit drop, but distortion in the bass frequencies and nowiling in the speakers may also occur. 2. Check the turntable instruction manual for any other precautions. 3. The loud noises that occur when connecting or disconnecting, replacing the cartridge or lowering the tonearm could damage the speakers. Always turn the power switch off before making connections Tape Deck and Graphic Equalizer Connections (TAPE-1, TAPE-2) 1, This unit has faciities for two tape decks. If you are using only one tape deck, connect il to the TAPE-1 jacks. If you have two tape decks, connect one to the TAPE-1 jacks and the other to the TAPE-2 jacks. 2. Connect the output of the tape decks to the TAPE-1 and TAPE:2 “PLAY” jacks, Connect the input of the tape decks to the TAPE-1 and TAPE-2 “REC” jacks of tho unit. For more dotails, reter to your tape deck instruction manual, 3, To connect a graphic equalizer, 100, use the TAPE-2 jacks and connect the second tape deck to the tape jacks of the equalizer. (See the figure) To connect a graphic equalizer and second tape deck to the TAPE-2 jacks. To TAPE-2 "REG" jacks of TX-SV515P RO To TAPE-2 “PLAY? lacks of TX-SVS1SPRO Graphic equalizer Second tape deck 4. I you have an ONKYO tape deck with the I remote control Jack, connect it to the TAPE-1 jacks. Piease refer to the section "Connections for Remote Control” regarding connection of the remote control cable.

Video Disc Player (or Video Cassette Player) Connections (VIDEO-1) Connect the VIDEO outpul of the video disc player to the TXSV515PRO (VIDEO) VIDEO.1 “IN" jack and the AUDIO output to the (AUDIO) VIDEO-1 “IN” jack. The VIDEO-1 jack is only for playback, there is no OUT jack. For more details, reler to the video disc player instruction manual. Video Cassette Recorder Connections (VIDEO-2, 3) 4. Connect the VIDEO output of the VCR to the rear panel (VIDEO) VIDEO-2, 3 “IN” jack and the VIDEO input of the VCR to the rear panel (VIDEO) VIDEO-2, 3 “OUT” jack. Then connect the AUDIO ‘output of the VCR to the (AUDIO) VIDEO-2, 3 L and R “IN” jacks. Finally, connect the AUDIO input of the VCR to the (AUDIO) VIDEO-2, 3 L and R “OUT*jecks. When using a playback-only VCR, only the output connections need to be performed. For more details, refer to the VCR instruction manual TV Connections (MONITOR) 1. Connect the TV VIDEO input to the TX-SV515PRO “MONITOR OUT". jack. There is no need to perform an audio connection since sound will be sent directly from the TX-SV51SPRO to the speaker systems. The TX-SV515PRO does not have an RF converter. Therefore, it can be used with only a monitor TV equipped with a video input jack. ‘Since the television set, tuner (FM/AM) section of this unit can cause interference that may disrupt sound andlor picture quality, the TV and TX-SV515PRO and their respective connection cables should be placed as far apart as possible. The use of a common TV/FM antenna is not recommended (see antenna section). 2 3. AC Outlets @ SWITCHED: These outlets are switched on and off by the Power button on the front panel and remote control transmitter. Capacity is total 120 watts. Connections for Remote Control (REMOTE CONTROL) © A cassette tape deck, and compact disc player that have the ONKYO FRI mark can be operated using the accessory remote control transmitter with the TX-SV515PRO. TXSVS15PRO Ri acwort conrad compact DISC PLAYER RI piwore conto REMOTE CONTROL CASSETTE TAPE DECK I mary Connect a remote contro! cable to the Diack jack win the FRE mark ‘An RE romote control cable equipped with a 1/8" (3.6m) damator miniature tworconductor phone plug Is atiached 10 the TX-SV51SPRO end to CD player, with the FRE mark, To use an ONKYO compact disc player and cassette tape deck with the RU mark, insert the accessory remote control cable plug into the REMOTE CONTROL jack. As far as connecting sequence is

concerned, it doesn’t matter whather the cable is connected from the TX-SV51SPRO to the cassette tape deck or to the compact disc player, The remote control transmitter is operated by facing it towards the remote control sensor of the TK-SV515PRO. NOTES: @ To enable remote contiol operation, the audio connection cables and the remote control cable should be connected between the units @ The remote control of the TX-SV515PRO cannot be used to operate an ONKYO turntable:

Connections for Multiple Room Remote Control ‘@ When using only the HR-10 (option) to control TX-SV515PRO in the main room from ancther room, connect them as shown in Fig. 1. In this case, ONKYO CD player and cassette tape deck bearing the FI mark connected to the TX-SV515PRO can be controlled. Remote coetrat tansmater HR40 ican =| % Louuspeaker set"MAIN' HE-5O(AC)] Fig.2 Bottom of HR-10 @ To enable remote control operation when the TX-SV515PRO is to speakers “EMOTE mountad in a rack which will not permit infra-red beams to pass, Fig. place the HR-10 somewhere outside the rack and set the HE50(AC) in a position which will permit remote control operation of the TX-SV515PRO. The HE-50(AC) is nol necessary when utliz~ ing the ONKYO set with the FI mark. Please connect the HA10 and TX-8V515PRO. (see Fig.2) © A connection example using the HR-10 (option) and HE-50 (AG) (Option) to contro! components in the main room from another room Is shown in Fig. 3. ; if all the components can not be controlled by the HE-S0 (AC) alone because they are installed at various places in the main room, use the remote emitter head HE-10 (option). in this case, I components possess infrared remote control feature, thay can be controlled even if they are not ONKYO products, NOTE: When using HE-50(AC), the HE-50 or HE-10 should also face the TX-SV515PRO, Loudspeaker sot Loudspnaker sot “MAIN “Maine Loudepoaier cot "REMOTE" se eaoee | HE-50 (AC) ‘Main room wo vesvateeng SN ADAPTOR | 4 \,_ Bottom of HE:80 (AC) ar ear paral ofthe TRSVSTSPRO ; aa j Bottom of HR-10 to speakers “REMOTE” Fig. 3 Remote sensor and emitier (like the HR-10 and HE-50(AC)) should NOTES: be connected with low capacitance shieided two coaxial cable with z mini-plug 1/8" (3.5 mm diameter) connectors. Maximum cable length 2 pal beret bbsrteiuae eked rane TRSNELSERO is determined by the characteristics of the particular cables used but @ Ingort the E172 mini-plug into the GREEN TERMINAL on the approximately 164’ (0 m) lengths are generally practical, rear panal of the TX-SV51 5PRO. Ready made cable complete with mini-plug connectors are available in the following lengths: 6-1/2’ (2m) (HW-2), 98-7/16' (30m) (HW30), and 164° (50m) (HW-50), (ONKYO cables may not be sold in some regions.) Refer to the instruction manual which comes with the HR-10 when making these connections. Use low impedance cables to connect the TX-SV515PRO in the main room and a set of

loudspeakers in another room.

Control positions and names Front panel For more information about buttons or controls, turn to the page number listed inthe[‘Speaker Selector Buttons (SPEAKERS MAIN/REMOTE) [11] Direct Access Tuning Button (DIRECT TUNING) [12] Surround Operation Button Classified Memory Scan Button (SURROUND MODE, CENTER MODE, (CLASSIFIED SCAN) [13] Power Suton DELAY TIME -/+) [16] (ROWER I") Volume Control Memory Button Number Buttons Knob and indicator Remote Control Sensor (MEMORY) [12, 13]| (1 10.9, 0) [12] (MASTER VOLUME) [11] ONFEVO fesse isin0, nannanncenn | | exsvsfinc T FM Muting/Mode Button (FM MUTE/MODE) [12] Multi Source Button Bolence Control (MULTI SOURCE) [17] Classified Memory Buttons “4 (CLASS-A to CLASS-F) [12] (BALANCE) (11) Recording Out Button (REC OUT) [13, 14] Tuning Selector Buttons | Treble Control Knob (OOWN, UP) [12] (TREBLE) {11} Headphone Jack (PHONES) Base Corkrol Kadi: (BASS) [11] MR Off Button (fT OFF) input Selector Buttons: and indicator [17] ‘Audio Selectors (CD, PHONO, FM, AM, ‘Selective Tone TAPE-1, TAPE-2 MONITOR) Control Button ——— ~ Video Selectors (VIDEO-1 VDP/CDV, VIDEO-2 VCR, (SELECTIVE TONE) [11] VIDEO-3 VCR) [11] Display and indicators Audio Muting Indicator ‘Speaker Selector Indicators ‘Selective Tone Control Indicator FM Muting On/ort Indicator Memory indicator Video input Selector Indicators Sleep Indicator Surround Mode FM Stereo Indicator Indicators aa ‘Tuned indicator ‘Tape-2 Monitor indicator Recording Out/Multi Multi Function Dispiay Source Indicators Preset Station/Sleep Timar/ ‘Multi Source Volume Level Multi Function Display Delay Time/Center, Rear Volume Level Frequency/input Selector/Each mode abs:

Remote control transmitter RC-252S Power Button (POWER) —— Input Selector Buttons (CD. PHONO, TUNER, VIDEO-1, VIDEO-2, VIDEO-3, TAPE-1, TAPE-2) + When the TUNER button is pressed, the station which was received previously is recalled. Selection of AM or FM should be done on the main unit. Sleep button (SLEEP) (Remote control transmitter only) Press to set the power off timer. The sleep timer is a function which button off the power to the sysiem from the time it is set. When this button is pressed, "80 MIN" is displayed for 5 seconds, and the power goes off 90 rrinules later, Each time the button is pressed during § seconds, the limer setting changes, by 10 minute intervals, such as 80, 70, 60 ..., While the sleep timer is operating, the [SLEEP] indicator is lit. If the sleep button is pressed during this time, the amount of time remaining on the slosp timer \s displayed, and il the button is pressed during that display. 10 minutes will be subtracted from that time. Ii the button is pressed when the panel display shows 10 minutes or less, the sleep timer is cancelled, and the power is not turned ott b Speaker Selector Butions (SPEAKERS MAIN/REMOTE) ‘Multi Source Button (MULT! SOURCE) Multi Source Level Up/ Down Buttons CD Operation Buttons (CD) (MULTI SOURCE UP/ DOWN) These buttons are used to operate an These buttoris can be used to adjust the level of ONKYO CD piayer with ihe FI Mark. tha speakers connected to the ‘AEMOTE" =: Press this button to play the CD player. speaker terminals (perhaps in another room) IE Press this button to pause the CD play when the MULTI SOURCE mode is selected (Ihe back. To resume disc play, press the MULT SOURCE] indicator is iit), When one of PLAY button the buttons is pressed in the Mult Source modo DISC : Press to use for sequential selection of the display shows the level for wo seconds. The discs in the order they were loaded on indication for the Sub Room output lovel ranges the CD changer. from the minimum of (-- 09 GB), -78, -77 ..-1 Press this button to stop the CD player. fo the maximum of (0. dB). Indications include we Press this button to go back to the MUL TF for multi source level, These level setbeginning of the current track and again tings can be memorized. to skip back to the previous track. bei Press this butlon to skip to the nex! sThinat- Operatn autions CRUNK face i = CLASS. Class selector button ooo | a\S PRESET UP/DOWN: Preset memory DOWN/ og | a UP buttons —— “ am | Test Tone Button (TEST) Saarale I a — Operation

Buttons (DECK-A, DECK-B) felts: peralae: han: {Dolly (Efe. Tope : pig 7 These buttons control ONKYO double cassette Surround mode has been selected as the cic tape decks that can be remote contiolled. Use peice & oeuare set Pala eee the DECK-B bultons to control single cassette uc ih order tape decks with the FE mark. levels used by the Front. Center, and Rear ON ue tet) Gite {Wien ie letpressed, he racordtha speakers, Please follow the procedure described above to do this matching, Press the TEST button again after tinishing adjustment stand-by mode is entered, The tape plays, moving trom nght to left, or, in the recording siand-by mode, recording begins Interrupts all operations, The tape plays, moving from left to -_ 'Surround Mode Button (SURROUND MODE) Gelay Time Button (DELAY TIME) 7 Center Level Up/Down Buttons (CENTER LEVEL UP/DOWN) —— Rear Level Up/Down Buttons (REAR LEVEL UP/DOWM) These buttons are used to adjust the volume in the Surround mode. When one of the buttons is pressed in the Surround mode, the display shows the level for two seconds. For the Surround mode, the indication for the center or rear ranges from the minimum of (-- 0¢ 4B), -60, -40 ..0, +1, ... to the maximum ot (+12 dB). In the DOLBY PRO LOGIC and HALL modes, different values can be stored. ~10 fight, of, in the recording stand-by mode, recording begins. Fast forward from right to teft, Fast forward from left to right 44a Audio Muting Button (MUTING) This buttcn temporarily switches off the sound from the speaker or headphone. Pressing this button will operate the TXSV515PRO audio muting circuit. The audio muting indicator *MUTING' will flash, Pressing the button again or using the POWER button on the remote contro! transmitter to turn the power on will turn off the audio muting. * Pressing this button Goes not mute the sound of the multi source, Press the SPEAKERS REMOTE button to mute the sound of the multi source Volume Buttons (VOLUME UP/ DOWN)

Operations To listen to your favorite Source) POWER @) SPEAKERS and HEADPHONES () MASTER VOLUME © The button pressed is shown in display. For FM or AM, the band and the frequency are shown in display. © Confirm that the TAPE-2 MONITOR indicator is off wien a source other than the TAPE-2 has been selected. Also check the audio muting is off. @ Sian play of the selected input source. ® Follow the operating instructions of that unit © If FM or AM Is selected, please rofer to the section “Tuner Reception” @ Adjust the MASTER VOLUME Control knob to the appropriate level @ Adjust the Tone Controls to oblain the desired tone setting, NOTE; @) Input Selector Buttons ® Starting Source Selected in @® 6) Tone Controls (7) Press the POWER button to tun on the power, ® Press the MAIN button of the speaker selector buttons. The [MAIN] indicator will be lit. When using headphones, use the jack located under the MR OFF button, Stereo headphones with a standard binaural plug can be connected here (Sound from the front MAIN speakers is output.) The sound from the headphones in the Surround Mode May be different from that which is obtained from speakers. The sound in the headphones may seom relatively far-away. @ Press one of the desired Input Selector button (CD, PHONO, FM, AM, TAPE-1, TAPE-2 MONITOR, VIDEO-1, 2, 3) Make sure thal the connections between the input sources are correct Atter selecting VIDEO-1 or VIDEO-2, or VIDEO-3 you can play the images of the selected video source while listening to the sound of another source. (CD, TUNER, PHONO, TAPE-1 or 2) In such case, the setting of the video selector button is indlcated by the lit video input selector indicator. Memory Preservation This unit does not require memory preservation batteries. A built in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in in order to charge the back-up system. The memory preservation petiod after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are projected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the uni is exposed 1 a highly humid climate Explanation of the buttons 1 Power button (POWER) and Siand-by/Received indicator ‘The Stand-by/Recewed indicator comes on whan the AC power cord for this unit has been inserted in an outlet. This

indicates that the TX-SV51SPRO is standing by ter operation. Pressing the POWER button or remote control POWER button, the main unit will come on, and power will ba supplied from the AC autlet to the rear panel, This indicator then goes off. The indicator also lights whena signal is received trom the remote control unit, Speaker Selector butions (SPEAKERS MAIN/REMOTE) and indicators You can operate the SPEAKER SELECTOR trom the front panel or with the remote control. When the MAIN and/or REMOTE is ON, the MAIN, REMOTE of the SPEAKER indicator will be lit, @ MAIN speakers button; The front speakers connected to the “MAIN” speaker terminals and the speakers connected to the “CENTER, and "REAR" speaker terminals can al be switched on or off at the same time. © HEMOTE speakers button: The source you selected using the MULTI SOURCE will be output from the REMOTE speakers. When you select the MULTI SOURCE mode, the MULTI SOURCE] indicator will be Jit, then you can switch the speakers oonnected to the “REMOTE” speaker terminals on or off. However, they cannot be tuned on ina mode other than the Multi Source mode. When the REC OUT mode is selected, or during surround playback, these speakers will be automatically switched off 'S Master Volume Contro! Knob (MASTER VOLUME) Use the MASTER VOLUME control knob to adjust the volume of the front main, center and rear (surround) speakers, at the same time. Turn clockwise to incr2ase the volume level. The volume can be adjusted manually and by the remote control transmitter's VOLUME UP/DOWN buttons. The MASTER VOLUME control knob rotates when the volume is adjusted by remote control. When you adjust the volume with the remote control check the ‘evel by looking at the indicator on the knob as it rotates. For fine adjustment of center and rear speaker volume in comparison to front speaker volume, use the remote Control transmitters CENTER LEVEL UP/DOWN or REAR LEVEL UP/DOWN buttons You can adjust the level of the REMOTE speakers by using the ‘only UP/DOWN buttons of the MULT] SOURCE LEVEL on the remote control. Tone and Balance Controls. ® Bass Control Knob (BASS) Adjust to strengthen or weaken bass response. (Not effective tor the center, rear speakers and multi source signal.) Treble Control Knob (TREBLE) Adjust to strengthen or weaken treble response. (Not effective for the center, rear speakers and multi source signal.) * TREBLE and BASS are effective for the Land R of the front Speakers, The best effect trom DOLBY

PRO LOGIC SURROUND can be obtained when equal settings are used for the sound from the UR front speakers and tha sound from the center speaker for the middie and treble ranges. @ Balance Control Knob (BALANCE) Use the Balance Control Knob (BALANCE) to adjust the relative volume levels of the left and right of MAIN speaker systems. This adjusts the relative volume level of the front MAIN speaker systems, @ Selective Tone Control button (SELECTIVE TONE) and indicator Switching on this button lights up the indicator and creates a clear reproduction quality of the ultra low frequencies and high frequencies. (Not effective for the rear speakers and multi source signal.)

Tuner Reception Press the FM or AM Input Selector button and make sure thal the TTAPE-2 MONITOR indicator is off and audio muting is off. 1 Tuning with the TUNING buttons TUNING DOWN upe To tune In an FM or AM station not stored in the memory, press one of the Tuning selector buttons. If you press UP, the frequency Is Increased. Pressing DOWN decreases, Note that the frequoncy is changed in SOkHz stops in FM and 10(9)kHz stops in AM when the Tuning selector button is pressed in single steps. If this button is pressed continuously tor more than 0.5 seconds, the auto tuning mode is entered, and frequencies are scanned automatically. When a broadcast signal is received. scanning stops and that frequency is displayed. I! a different frequency Is desired, press the button once again. @ Scanning will not stop for broadcasts weak enough to be suppressed by the muting circuit. To receive a weak FM broadcast, set the MUTE/MODE button to the OFF position and select the frequency of the desired broadcast station. @ Receiving a station by inputting the frequency for the station directly (Direct Tuning) If the frequency for the desired station Is known, Input the frequency number directly. @ Number Buttons o , i 000 J @ FM, ees) @) DIRECT TUNING (1) Press the AM or FM button of the Input selector buttons. (2) Press the DIRECT TUNING button. _ @ "will flash for 16 seconds in the Frequency display, @ Input the desired fraquency number by using the Number butfons while the cursors are flashing. For instance, it you wish to receive the station of 88.10MHz, pross the Number buttons, 8, 8, 1 and 0. © When receiving AM broadcast with a 9kHz step, use the same procedure as described in step (3) above. With 10kHz stops, inputting a number fo the 10kHz digit will set the 1kHz digit automatically to 0. ‘@ If the desired frequency set in this operation does not exist, the frequency which is the nearest and lower than the desired frequency will be received. If the frequency set Is not in the receive frequency range, the frequency flashes for two seconds and then the previous frequency will be displayed. ‘® If a wrong frequency has been set, press the DIRECT TUNING button and start again. How to use the FM Muting/Mode button (MUTE/MODE) Inthe Muting ON (STEREO) selting, FM stereo reception is possible and the muting circuit suppresses interstation noise and weak FM stations, In the OFF (MONO) setting, interstation noise will be heard and even weak FM stations can be

received. (Muting/Mode operation is eftective for only FM reception.) MEMORY — FM MUTE/MODE. \— ERASE — © The Stereo indicator will light up if the broadcast is being received in stereo. The Stereo indicator will not light up if the broadcast is monaural or too weak to be received in Stereo. Classified Memory Function The memory can be divided (classified) for different users or programs of stations. NOTE: ‘There are times when frequencies are lett in the machine's mem‘ory from the final testing done prior to shipment. if this is the case with your TX-SV515PRO, cancel unnecessary preset stations according to "How to cancel memorized stations” and memorize desired frequencies. 1H How to classify stations With this model, six classes (CLASS A to F) are available and stations can be memorized in any class, A total of 40 stations can be memorized in classes from A to F. Although the same station can be memorized in different classes, the memory number tor the station will differ depending on the order in which the station is memorized in the classes. (1) Tune in the desired station (see section on “Tuner Reception’). (2) Press the MEMORY button, @ The MEMORY indicator will flash for 8 seconds. (3) Press the desired Classified Memory button (one of buttons A toF). . The siation is memorized in the selected class with the memory number which is the smallest of the unoccupied numbers in the class. By repeating the operations above, up to 40 stations can be memorized. it an attempt is made to memorize 41 slations or more, "FULL" will be displayed indicating that no more stations can be memorized. How to cancel memorized stations Retrieve the class number you want to cancel (see “How to retrieve memorized stations") and then press the MUTE/MODE button while holding down the MEMORY button. Another station can be memorized with the memory number which has been cancelled. MEMORY = FM MUTE/MODE es 5

@ How to retrieve memorized stations (@) Press the Classified Memory button for the desired class. It remote control is used, the class next to the present one is retrieved when the CLASS button is pressed. @ The memory number (station) which was being received before the olass is retrieved will be received. (2) There are several methods to proceed after the above operations are carried out. Use any of the following methods. a. Pressing the same Classified Memory button again permits the nex! preset memory number (station) to be* received. 'b, Input the memory number you wish to receive by using the Number buttons. @ ifthe memory number consists of 2 digits, input two num bers, immediately one after the other. For instance, when inputting "15", “15” will not be registered if you wait more than one second before inputting “5”, resulting in only “1 being registered. © if a number other than a number trom 1 to 40, or a number which has not been memorized 's input, the number flashes for 2 seconds and then the number which was dis played before will be displayed. © Ita number between t and 4 Is pressed, the display and station are changed 1 second later, ©. Press the CLASSIFIED SCAN button @ Stations memorized in the present ciass will be scanned in a order and the corresponding memory number will flash in the Preset station display at each scan. After the iast memory number of the class is reached, scanning starts again from the first memory number of the class, Pressing the CLASSIFIED SCAN button again stops scanning. d. When the PRESET UP or COWN button of the remote controller is pressed, the memory number of the class currently being received will be incremented or decremented. Keeping pressing the button increments or decrements continuously. After the maximum or minimum number is reached, the next class or one before the present class will be entered. Tape Recording With the TX-SV515PRO you can pertorm recording while listening to the sound of another source through speakers or headphones; Make all connections between the tape deck and the unit as shown in the System Connections diagram, @ When recording a tape while the multiple room remote control is connected, turn on ITFR OFF (the MR OFF indicator will light) to disable remote control operation from other rooms. ™ Recording and dubbing to a tape deck connected to TAPE-1 (When recording the source you are listening to) (@@) REc out Source required Source selected in (1) @ Starting

tape @ Starting deck recording Bouts selected in (1) @pr ress ine input selector bution to select the source to be recorded. (Other than TAPE-1) Op ress the REC OUT button. on the display flashes for 8 seconds. ® Press the REC OUT button again while the [REC OUT Indicator is Hashing Os REC OUT) and [SOURCE] will light, and the indication of the source selected by the Input selector button will be marked with a red frame. tart the device selected in stop (i), while setting the tape deck connected fo TAPE-1 to recording mode. Set the proper recording level using the controls on the tape deck used for recording. Never change the positions of any controls (bass, treble, etc.) on this unit during recording and dubbing operations. NOTES: Pressing the \nput selector button during recording will change the source being recorded, When the TAPE-2 MONITOR indicator is on, only TAPE-2 can be recorded and if the input selector is changed, the red frame of TAPE-2 will not change.

(When recording a source diferent from the one you are listening to) (o) Bross the REC OUT button, [REC OUT on the display will flash for 8 seconds. ® Press he input selector button for the source to be recorded while the [REC OUT> indicator is flashing. (Otner than TAPE-1) © [REC OUT) will light and the indication of the source selected willbe marked with a red frame. This source will be output irom the REC OUT jacks of TAPE-1, VIDEO-2 or VIDEO-3. The source you are listening to does not change. (@ Start the source device selected in step (2), and start recording ‘on the tape deck connected to TAPE-1 NOTE: @ REC OUT @ Source required @ If FMor AM |s selected on the tuner (as described in step (2) above) and the input selector is set to Something other than ‘Tape Deck Source selected in 2) TUNER, the tuner's frequency and class displays will be shown for 5 seconds, During this time a tuner preset station @ Starting tape @& Starting can be selected. deck recording Source selected in (2) I Recording and dubbing to a tape deck connected to TAPE-2 (1) Press the input selector button of the source to be recorded. (Other than TAPE-2) 2) Put a blank tape in TAPE-2. ss Start playing back the device selected in step (1), and start @ Source required recording on TAPE-2. @ When the TAPE-2 MONITOR button is in the OFF position, the source signals can be monitored through the speakers or the headphones. It tape dack 2 has thres heads, the justrecorded signals can be monitored (when the TAPE-2 MONITOR button is in the ON position). Reter to the tape deck instruction manuals for more details. @ Sot the recording ‘evel using the controls on the tape deck used for recording. Never change the positions of any confrols (bass, treble, etc.) on this unit during recording and dubbing operations, co oo = ° Source selected in (1) Tape Deck @ Start playback @ Insert blank Tape @ Start recording ing the Graphic Equalizer @) Connect the graphic equalizer to the TAPE-2 jacks on the rear panel @ fa second tape deck is used, connect it to the tape jacks on the graphic equalizer. (@ Press the TAPE-2 MONITOR bution. ‘® Follow the graphic equalizer operating instructions, @ To rocord an equalized signal, use tape deck 2 (connected to the equalizer) for recording a

VCR recording Data can be recorded from Video Disc Players, Video camcorders, and Video Casette Recorders to Video Cassette recorders connected to VIDEO-2, 3. Connect the VCR to VIDEO-2, and/or VIDEO-3. (When recording the source being played back) @ @ Rec out co o 1) Source required fi cle ° Source selected in (1) @ Starting Source selected in VCR (VIDEO-2 and/or VIDEO-3) @ Staning VCR recording (When recording a source different ‘rom the one being played back) @ REC ouT @ Source required ‘Source salected In (2) VCR (VIDEO-2 and/or VIDEO-3) @© Starting @ Starting VCR Source selected recording in@) Mixing video and audio for VCR recording (Press the input Selector button to select the video equipment (VIDEO-1, 2, 3) to be used when playing the video.Press the REC/PAUSE button on the VCR (VIDEO-2 or 3) that will be doing the recording, @Press the REC OUT bution and Inpul Selector button (CD, PHONO, FM, AM, TAPE-1, TAPE-2) to select the audio source. © The picture will be loft as is. Only the audio will be changed, 3) Start operation of the equipment. (The picture will be recarded from the video source, ant the sound from the audio source Select the source to be recorded with the input selector button. 2 reas the REC OUT button. [REC OUT) on the display will flash for 8 seconds. ® Press the REC OUT button again while the [REC OUT is flashing. e@ [(RECOUT and [SOURCE] will light and the source selected with the input selector will be marked with a red frame. @ Start the source selected in stap (D, and start recording the VCR connected to VIDEO-2 and/or VIDEO-3 ® Press REC OUT button, [REC OUT) OUT) on the display will fash for 8 seconds, ® Pres the Inpul selector button of the source to be recorded while he [REC OUT) indicator is flashing © [REC OLT) wiilllight, and the source selected will be marked with a red frame. @ Start the source selected in step @), and star! recording the VCR connected to VIDEO-2 and/or VIDEO-3. -15

Use of Surround mode _ 1 Surround Mode button (SURROUND MODE) and indicators Use this button in conjunction with the sound source being repioduced, This will rotate one step at a time through the following pattern each time this button is pressed. (DOLBY PROLOGIC -» HALL ~» OFF (Bypass) — DOLBY PRO LOGIG When the sound source features the DOLBY SURROUND trademark, HALL + Create a concert-nall effect. OFF (Bypass) When you are not using surround sound. When this Is pressed, no sound Is produced trom the center and rear (surround) speakers. These modes can be changed with the remote control transmitter by using the SURROUND MODE button © When you press and hold down the SURROUND MODE button, the name of each mode will be shown on the display for 2 seconds in turn. 7 @ In the SURROUND MODE each selected source along with the Input selector source is automatically stored, and consequently recalled when that input selector source is selected, * When the SURROUND MODE js set to HALL, the center 'Speaker does not produce sounds. Delay Time button (DELAY TIME -f+) and Indicator You can change the delay time for the sound from the rear (sur~ round) speakers. Pressing this button changes the delay time every 5 msec during @ period of 15 to 30 msec in Dolby Pro Logic. and Hall surround. @ When you press and hold down the DELAY TIME button, "DELAY" and the dalay time will be shown for 3 seconds on the display, Dolby Surround delay lime is specitied at 20msec. It is recom: mended that inital Dolby Surround delay be set at 20msec, and adjustment to either 15 or 30 1s possible via the control. By adjusting the delay time, and carefully adjusting Master Volume Level, Center Volume Level and Rear Volume Level, the appar ent acoustic size of your listening room can be enlarged or reduced Adjustable delay time allows you to tailor the acoustic size of your listening environment to match the sonic characteris: tics of the audio program. Use a longer delay for larger acoustic 'spaces, such as concert halls, cathedrals, eto. Use a shorter delay to simulate the size of a small club or cabarel. Respective delay limes can be memorized for DOLBY PRO LOGIC and HALL This operation can also be pertormed using the delay time button of the remote control transmitter, NOTE: Z 1! you are in surround mods and change the delay time, but the fear (surround) speakers are not connected, nothing will happen However, even under these conditions, each

time Ihe delay time button and surround mode button are pressed, front speaker muting will occur and sound will disappear momentarily, This 1s | nota malfunction ® Center Mode button and indicator (CENTER MODE) Use this button setting according to the size of the center speaker for the Dolby Pro Logic Surround NORMAL ; Use this setting when a small enclosure center ‘speaker ts ullized WIDE BAND © Use this setting when a speaker similar to the left and right stereo speakers is utilized. PHANTOM ; When a center speaker is not present. © When you press and hold down the CENTER MODE button, the name of each mode will be shown on the display for 3 seconds jn turn —16 Adjusting the Dolby Pro Logic Surround Level All the operations can be controlled by the remote control trans+ miter. Functions No} (4) to (6) are operated only by the remote ‘control transmitter. \D Select a source encoded with Dolby Surround. (2) Use the SURROUND MODE bution to select Dolby Surround mode. (@ Next, use the MASTER VOLUME to set the volume to the desired listening position (4) Press the TEST butten on the remote control transmitter © “TES T™ will appear on the display, and pink noise will bo output for 1.5 seconds from each of the Lat, Genter, Right, and Rear (in that orden) speakers. When the center mode is PHANTOM, this will be output in the following order: Lett, Lett + Right, Right. and Rear (S) Use the remote control CENTER LEVEL UP/DOWN button to. adjust the volume of the center speaker, and REAR LEVEL UP/DOWN button to adjust the volume of the rear speakers. Set the front, rear, and center speakers to the same volume. (©) Press the TEST button to cancel the pink noise

Listening to devices connected to the TX-SV515PRO in another room @ TX-SV515PRO allows you to listen to the desired performance in another room (sub room) while listening to the playback of a device located in the main room. To do this, connect the speakers in another room to the FRONT SPEAKERS REMOTE terminals on the TX-SV515PRO, @ Remote control from another room can be done by employing the ONKYO multiple room remote system (412). Refer to the connections for multiple room remote control, Be sure to operate the remote control unit directing to the remote sensor unit HR-10, © The following steps (except step (1)) can be performad using the ramote control unit. It is recommended that the adjustments described below be done in the main room in advance, sinc play of the TX-SV5152RO. (@ MR OFF @) MULTI SOURCE = ‘o) Source required ® Speaker Selector REMOTE (@) MULTI SOURCE UP/DOWN NOTES: @ The surround mode will be turned OFF (Bypass) when MULT! SOURCE is used. © The source indicated by the input selector will be output from the TAPE-! and 2, and VIDEO-2 and 3 REG OUT terminals. © Press the REC OUT button to change the MULT] SOURCE mode to the Surround mode or REG QUT selector modes. is not possible to operate the remote control unit in another room while watching the disMake sure that recording is not being carried out before setting the TX-SV51SPRO. () Turn the MR OFF button OFF (IMR indicator is tured off.) @) Press the MULT] SOURCE bution, © [REC OUT indicator will be turned off and the indicator will flash for 8 seconds @ While this is flashing, use the input selector button to select the desired source. e will light and the selected source will be marked with a red frame. © If tuner is selected with MULT! SOURCE and the input selector is set to something other than TUNER, the tuner's frequeney and class displays will be shown for 5 seconds. During this time a tuner preset station can be selected. @ Adjust the level using the MULTI SOURCE UP/DOWN buttons of the remote control transmitter. © MULTI and the level will be indicated on the display. It is recommended that the Jevel be set lower in advance in the main room (~78 16 -76d8), @ Press the REMOTE button of the SPEAKERS to illuminate the REMOTE] indicator. © Press the MAIN button to turn off the [MAIN] Indicator if you ate not listening the sound in the main room When changing the source, be sure to press the MULTI SOURCE button before pressing the input selector

button. Pressing the input selector button without first pressing the MULTI SOURCE button will change the source in the main room. MR Off button (MR OFF) and indicator Use this button for tape recording or for the surround sound modes. It is used to disable control of the ONKYO MR system via the remote control unit in another room. Pressing this button ‘will iIluminate the indicator, and control from another room will be disabled, Pressing the button again will turn the indicator off, and ‘control from another room will be enabled, NOTES: © If the multi source is selected, the MR OFF automatically turned OFF. © It the multi source is selected for REC OUT, and the SURROUND MODE key is selected, the MR OFF automatically turned OFF. @ You can use the remote control. transmitter supplied with this ‘Tuner Amplifier to operate the source devices selected for the multi source if they are an ONKYO CD or cassette deck bearing the RI mark, @ There is a remote control unit RC-MA1H for the sub room, which is sold separately. @ Installment of the remote sensor unit HR-10 and te remote ‘emitter unit HE-50(AC) Is required to control non-ONKYO. devices from another room (sub room). Operate the remote contro! unit included with the device by directing the control unit toward the HR-10 installed in another room (sub room). @ It @ problem occurs, use the TX-SV515PRO’s tront panel controls to verify that the problem is with the remote controller. It there is no problem when operating the TX-SV51SPRO. directly, check the batteries in the remote controller first bofore assuming that there 1s a controller malfunciton. NOTES: @ The source may be changed or recording being done on the TX-SV515PRO may be interrupted when operations are done: in the another room, Press the MR Off button to disable the control from another room, (The MR indicator will be illuminated.) @ Some non-ONKYO remote contro! transmitters cannot be used. -17

Troubleshooting guide NOTE: If a problem cocurs, first cperata the unit using the front panel controls to confirm that it is not due to a malfunction (or worn out batteries) of the remote control transmitter. Trouble Cause Remedy No power. @ Power cord is disconnected, @ There is external noise in the computer circuits of the TX-SV515PRO. AC fuse blown, ‘© Connect power cord. ‘@ Turn the power button off and then on again or remove the AC plug from the outlet and then plug it again. Contact your ONKYO service center. Power but no sound. ‘Tape monitor switch on Audio muting switch on. Bad connections. Amplifier protection circutry has been activated. Switch to off ‘Switch to off by remote control transmitter Check connections, speaker leads, etc. Contact your ONKYO service center. Hum, low-frequency noise Poor of no input ground. Poor or no phono motor ground, @ The placement of the audio connection cable on the rear panel is not correct. Check outer conductor of input plugs. @ Check for proper ground connection, @ Adjust the placement of the cables to reduce hum. Howling when the volume is turned up. @ Turntable and speakers are too close together. @ Move them farther apart. Rough or scratchy sound. High range is no! clear. © Stylus of pick-up is worn, © Stylus tip is dinty. @ Treble control too high. ‘@ Replace. Clean, Turn treble control down. AM stations carmot be received. @ AM loop antenna js not attached. ‘@ Connect the included AM loop antenna to the ‘AM antenna terminals. Buzzing noise on AM (particularly con‘spicuous at night or with weak stations). @ Noise from electrical apparatus such as fluorescent lamp, @ Move AM loop antenna to different position. © Set up outdoor AM antenna. High-pitehed noise or buzzing noise on W. @ Noise from TV sot. ® Place tho AM loop antonna as far as possiblo from the TV. ‘® Move unit away trom TV set. Crackling noise on AM, FM. @ Noise caused by turning fluorescent lamp on and off. @ Noise from automobile ignition © Move antenna as tar as possible from the fiuorescerit lamp. ® Install an FM outdoor antenna as far as possible from the road, © Change the position or direction of the outdoor antenna, FM tuned and stereo Indicators light but sound is distorted and stereo separation Is bad, @ Station is too strong. © Multiple reflection of the radio waves because of tall buildings or mountains, @ Change to T-shaped antenna. ® Use antenna which has better directivity and select a point where the distortion is least FM tuned

indicator and stereo Indicator flicker and hiss is heard on FM. @ Station is 100 weak. @ Stereo FM broadcasts cover only about half the distance of an ordinary broadcast, @ Install an outdoor FM antenna. © Change the position or direction of the outdoor antenna No station is recalled when a preset key is pressed. @ The power cord has been unplugged for along time. © The memory contents ara lost. Store all sta~ tions again, The multiple room remote system does not operate. ‘® Connection is wrong. ® The MR OFF button on the TXSV515PRO Is engaged, (The MR OFF indicator will ight.) @ Check the connection again. @ Press the MR OFF button. (The MR OFF indicator will be turned OFF) Front panel controls function but remote control transmitter does not. @ No batteries in remote control trans~ miter. © Batteries have worn out. © Insert batteries. © Replace batteries. ‘Also refer to the respective instruction manuals of the video dise player, video cassette recorder, TV monitor, etc., being used, The tuning steps by which the tuned frequency changes on each band have been set al the factory to the proper value for the country where each unit is to be sold. It you use the unit in a country where a different tuning step is required or if the broadcast frequencies In your country ‘change so that you can not tune in radio stations precisely, contact your authorized ONKYO Service Center, ~ 18

Specifications AMPLIFIER SECTION Powor Output, Front oe a as £80 watts per channel min. RMS. at ohms, both channels driven. (rom 20 Hz to 20,000 Hz, with 'no more than 0.08% total harmonic distortion [Surround mode and Multi sourc Front UR and center channels '§5 watts per channel min. RMS, at 8 ohms, 1,000 Hz with no more than 0.08% total harmonic distortion. Rear or Remote channels 20 watts por channel min. RMS. at 8 ohms 1,000 Hz with no more than 0.8% total harmonic vistortion, Total Harmonic Distortion' 0.08% at rated power (FRONT) IM Distortion: 0.08% at rated power (FRONT) Damping Factor. {60 at 8 ohms (FRONT) Sensitivity and Impedance: Phono: 2.5 mV/50 kohms 'CD MTape Play: 150 mVi50 kohms Tape Rec: 150 mVi22 kohms Phono Overload: 120 mV IMS. at 1,080 Hz, 0.5% THD, Froquency Response: 20 t0 30,000 Hz, +/-1 48 RIAA Deviation: 20 10 20,000 Hz. +/-0.8 dB Tone Controt: BASS. 4/10 dB at 100 Hz TREBLE: © +/-10 dB a! 10,000 Hz Signal to Noise Ratio: PHONO: 80.48 (IHF A. 5 mV input) CDITAPE: 100.48 (IHF A) Muting: 90 6B VIDEO SECTION Signal sensitivity and impedance \VDPAVCR input, output: 1 Vp-p, 75 ohms TUNER SECTION FM: Tuning Range: 87.5 — 108.0 MHz (50 kHz steps) Usable Sensitivity: Mono: 11.2 081,20) Stereo: 17.2 481, 4.0uV 50dB Quieting Sensitivity: Mono: 17 2d8f. 40nV Steroo: 97.2 dB1,4014V Capture Ratio: 1508 Image Rejection Flatio: 40.08 IF Rejection Rati 90 dB Signal-to-Noise Ratio: Mono: 7348 Stereo: 67 dB 'Altemate Channel Attenuation: 65.48 'AM Suppression Ratio: 50 08 Total Harmonic Distortion Mono: 0.15% Stereo: 0.25% Frequency Response: 30 — 15,000 Hz +/-1,5.08 Stereo Separation: 45 B at 1 kHz/90 JB i 100 — 10,000 Hz Muting Level: 17.2 dB, 4.0 nV GENERAL, Powor Supply: USA & Canadian models 'ACI20 V, 60 Hz Worlcwide models 120 and 220 V switchable, 50/60 Hz 455 » 170 x 388 mm A7-AB/IB" x 6-11/16" = 16-5/16" 19.5 kg (29.8 lbs) Dimensions (W » Hx 0): Weight: AM: Tuning Range: USA & Canadian models 530 — 1710 kHz (10 KHz Steps) Worldwide models 531 — 1602 kHz (9 kHz steps) Usable Sensitivity 30 nV Image Rejection Ratio: 4008 IF Rejection Ratio: 40.08 Signal-to-Noise Ratio: 40. dB Total Harmonic Distortion: 07% 'Specifications and features are subject to change without notice. follow the procedure batow. 1. Press and noid down the CO bution. then press the POWER button. 2. "Test-" ts displayed on the display for approximately 5 seconds. 3. This device employs a

microcomputer to perform various functions and operations. If interference generated by an external power supply, radio waves, or other electrical source results in an accident which causes the specified operations and lunctions to operate abnormally. To perform a reset, please ‘While “Tast-" ‘s displayed, unplug the TX-SV515PROs power cord trom its AC outlet. then “Test-" will disappear. Preset memory and parameters stored in memory, such as surround are initialized and will return to the factory settings. ONKYO CORPORATION International Division: 2-1, Nisshin-cho, Neyagawa-shi, Tel: 0720-31-8133 Fax: 0720-34-1340 ONKYO U.S.A CORPORATION 200 Williams Drive, Ramsey, N.J. 07446, U.S.A Tol: 201-825-7950 Fax: 201-825-8150 ‘SN 29341810Y OSAKA 572, JAPAN. 107960

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